# VMware products, available from IBM , provide the latest capabilities for desktop virtualization

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## At a glance

VMware vSphere 5.0 is VMware's cloud infrastructure that is intended to transform datacenters into simplified cloud infrastructures. This offering helps you to:

- Reduce IT costs
- Achieve control while automating and providing better quality of service
- Gain flexibility and resiliency

## Overview

VMware vSphere is a distributed software system with features enabled by a management server and hypervisor working together.

VMware vSphere 5.0 continues to transform the x86 IT infrastructures into the most efficient, shared, on-demand utility. It offers built-in availability, scalability, and security services for all applications and simple proactive, automated management. vSphere 5.0 provides new and enhanced features in the areas of:

- Installation and deployment
- Storage
- Network
- Availability and scalability
- Management
- Platform enhancements
- Security

Information about non-IBM products is obtained from the manufacturers of those products or their published announcements. IBM has not tested those products and cannot confirm the performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products. IBM makes no representation or warranty regarding third-party products.

## Key prerequisites

Refer to the Technical information section.

## Planned availability date

September 30, 2011

## Description

VMware vSphere 5.0 continues to deliver improved levels of performance and scalability with:

- Support for up to 32 virtual CPUs
- Support for up to 2 TB of physical memory per server
- Support for up to 1 TB of RAM per virtual machine
- Support for up to 512 virtual machines per server

vSphere 5.0 retains all but one edition from vSphere 4.1: the vSphere Advanced edition has merged into the vSphere Enterprise edition. These offerings help meet the needs of Small and Medium Business (SMB), Mid-Market (MM), and Large Enterprise clients.

- vSphere Essentials and Essentials Plus editions (bundles) for SMB and MM businesses and large distributed enterprises (such as branch offices).
- vSphere Standard edition at a lower price point for simple consolidation with license entitlement of 32 GB of vRAM.
- vSphere Enterprise for large-scale implementations needing consolidation, availability, and manageability with license entitlement of 64 GB of vRAM.
- vSphere Enterprise Plus provides tools to help with consolidation, availability, and manageability. Enterprise Plus also includes Distributed Switch and Host Profiles. New features include Auto Deploy, Policy-Driven Storage, and Storage DRS. License entitlement is 96 GB of vRAM.

**Note:** The amount of vRAM counted in any given VM is capped, so that no single VM up to a 1 TB vRAM VM would require more than one vSphere Enterprise Plus license. The available pool of vRAM is calculated as a 12-month average of consumed vRAM and monitored by vCenter Server.

vSphere 5.0 will have updated part numbers and naming from vSphere 4.1.

vSphere 5.0 includes detailed new feature content:

- vSphere ESXi Convergence - single hypervisor
- vSphere Auto Deploy
- vSphere Storage DRS, Profile Driven Storage, vSphere File System, vSphere Storage I/O Control, and vSphere Storage API Program
- vSphere Network I/O Control and vSphere Distributed Switch
- vSphere High Availability architectural enhancement
- ESXi Firewall
- vSphere Web Client
- VMware vCenter Server Appliance

The following are new stand-alone offerings with this release:

- vCloud Director 1.5
- vShield 5 family of security features
- vCenter Chargeback and Capacity IQ

The following offerings remain the same:

- VMware View offerings
- VMware Lab Manager

VMware Data Recovery Manager 5 is available as a stand-alone individual offering on top of VMware Standard and now VMware Enterprise.

VMware vSphere 5.0 continues a support model targeted to small environments. These new bundles are designed to enable IT administrators and decision makers at SMBs to easily deploy a VMware virtual environment and quickly reap its transformative benefits:

- VMware Essentials
  - All-inclusive package includes licenses for three physical servers (up to two processors each) and a license for a central management server. This package cannot be decoupled or combined and components cannot be used with other vSphere editions.
  - Includes Thin Provisioning, Storage API for Data Protection, Image Profile, Update Manager, 8 vCPU, vCenter Server for Essentials, and entitlement for 32 GB of vRAM.
- VMware Essentials Plus
  - Includes all the functionality of Essentials plus Data Recovery, High Availability, and an entitlement for 32 GB of vRAM.

VMware vSphere 5.0 provides three Acceleration Kits that provide for unlimited hosts and extensible management. Features include Thin Provisioning, Update Manager, Storage APIs for Data Protection, Image Profile, and SLES.

- Standard Acceleration Kit
  - This kit provides 8 vCPU, Central Management, High Availability, Data Recovery, and vMotion with an entitlement of 32 GB of vRAM.
- Enterprise Acceleration Kit
  - Includes all the functionality of the Standard Kit plus Virtual Serial Port Concentrator, Hot Add, vShield Zones, Fault Tolerance, Storage APIs, Storage vMotion, Distributed Resource Scheduler, Distributed Power Management, and with an entitlement of 64 GB of vRAM.
- Enterprise Plus Acceleration Kit
  - Includes all the functionality of the Enterprise Kit plus support for 32 vCPU, Distributed Switch, I/O Controls, Host Profiles, Auto Deploy, Policy-Driven Storage, Storage DRS, and with an entitlement of 96 GB of vRAM.

## Product positioning

The VMware products available from IBM include:

- VMware vSphere Essentials: VMware vSphere Essentials provides an all-in-one solution for small offices to consolidate and manage many application workloads while reducing hardware and operating costs with a low up-front investment.
- VMware vSphere Essentials Plus: VMware vSphere Essentials Plus adds high application availability and data protection for a complete server consolidation and business continuity solution for the small office IT environment.
- VMware vSphere Enterprise: VMware vSphere Enterprise minimizes downtime, protects data, and automates resource management.
- VMware vSphere Enterprise Plus: VMware vSphere Enterprise Plus delivers the benefits of VMware vSphere and transforms your IT infrastructure into the next generation of flexible, reliable IT services.
- VMware vCenter Product Family: The VMware vCenter Product Family enables you to deliver the highest SLAs across the IT infrastructure with VMware vCenter virtualization management products. Achieve the efficiency and agility your datacenter needs to power your organization's business-critical applications. Achieve greater operational efficiency and policy-driven control while managing

IT service levels across a dynamic virtual infrastructure. Deliver dramatically simplified and more effective IT management.

- VMware View for Desktop Virtualization: VMware View for Desktop Virtualization delivers rich, personalized virtual desktops as a managed service from a virtualization platform built to deliver the entire desktop, not just applications. VMware View allows you to consolidate virtual desktops on datacenter servers and manage operating systems, applications, and data independently for greater business agility while providing a flexible, high-performance desktop experience for end users, over any network.

## Program number

```
Program         Program
number    V.R.M name

5771-VM5  5.0   VMware 5 with 1 Year Software Subscription
5773-VM5  5.0   VMware 5 with 3 Year Software Subscription
5775-VM5  5.0   VMware 5 with 5 Year Software Subscription
```

## Offering Information

Product information is available via the Offering Information website

http://www.ibm.com/common/ssi

## Publications

No publications are shipped with these programs.

### IBM® Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

## Technical information

### Specified operating environment

#### *Hardware requirements*

IBM System x® and BladeCenter® servers that are listed on the IBM ServerProven® website

http://www.ibm.com/systems/info/x86servers/serverproven/compat/us/

#### *Software requirements*

To view the operating systems supported, visit

http://www.vmware.com/products/server/esx_specs.html
http://www.vmware.com/products/vmanage/vc_specs.html

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement

letter. Documentation and other program content may be supplied only in the English language.

### Compatibility

Some configurations may not be compatible.

### Performance specifications

The following minimum configuration is recommended

- 1024 MB system memory
- 50 MB temporary disk space on system partition
- 400 MB disk space for VMware vSphere 5

## Planning information

### Packaging

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

## Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

## Ordering information

### Charge metric

| Program name | PID number | Charge metric |
|---|---|---|
| VMware 5 with 1 Year Software Subscription | 5771-VM5 | Per 1 Processor |
| | | Per 6 Processors |
| | | Per 8 Processors |
| | | Per 3 Hosts |
| | | Per Instance |
| | | Per 25 VMs |
| VMware 5 with 3 Year Software Subscription | 5773-VM5 | Per 1 Processor |
| | | Per 6 Processors |
| | | Per 8 Processors |
| | | Per 3 Hosts |
| | | Per Instance |
| | | Per 25 VMs |
| VMware 5 with 5 Year Software Subscription | 5775-VM5 | Per 1 Processor |
| | | Per 6 Processors |
| | | Per 8 Processors |
| | | Per 3 Hosts |
| | | Per Instance |
| | | Per 25 VMs |

- vSphere Standard edition is offered with license entitlement of 32 GB of vRAM.
- vSphere Enterprise is offered with license entitlement of 64 GB of vRAM.
- vSphere Enterprise Plus is offered with license entitlement of 96 GB of vRAM.

Additional information is available in the Description Section.

**Server**

Server is a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or Client Devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing, licensee must obtain entitlements for each server that is made available to the program, regardless of the number of processor cores and partitions in the server or the number of copies of the program on the server.

Notes:

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by the program.
- Some programs may be licensed on a managed basis **only**. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by program.

**New licensees**

To order the programs described in this announcement, specify the type model number, order type description, one-time charge (OTC) feature number with quantity, and supply feature as indicated and listed in the tables below.

```
Note:  Feature code information is included for IBM internal use only.
Clients must use the SEO numbers for ordering.
```

```
                                         OTC      Supply
Type model number                        feature  feature  SEO
feature description                       number   number   number

5771-VM5  VMware 5 with 1 Year Software Subscription

VMware vSphere 5 Standard for 1 processor Lic and 1 Year Subs
   Per Processor with 1 Year Subscription   A1H7R4    5809    00D4550

VMware vSphere 5 Enterprise for 1 processor Lic and 1 Year Subs
   Per Processor with 1 Year Subscription   A1H6R4    5809    00D4551

Upg: VMware vSph 5 Std to vSph 5 Ent for 1 Proc Lic & 1 Year Subs
   Per Processor with 1 Year Subscription   A1HYR4    5809    00D4552

VMware vSphere 5 Ent Plus for 1 processor Lic and 1 Year Subs
   Per Processor with 1 Year Subscription   A1H5R4    5809    00D4553

Upg: VMware vSph 5 Std to vSph 5 Ent Plus for 1 Proc Lic & 1 Yr Subs
   Per Processor with 1 Year Subscription   A1HWR4    5809    00D4554

Upg: VMware vSph 5 Ent to vSph 5 Ent Plus for 1 Proc Lic & 1 Yr Subs
   Per Processor with 1 Year Subscription   A1HVR4    5809    00D4555

VMware vSphere 5 Std Acc Kit for 8 proc Lic & 1 Year Subs
   Per 8 Processors with 1 Year Subscription  A1H1R4    5809    00D4556

Upg: VMware vSph 5 Ess to vSph 5 Std Acc Kit for 8 proc Lic & 1 Yr Subs
   Per 8 Processors with 1 Year Subscription  A1JDR4    5809    00D4557

Upg: VMware vSph5EssPlus to vSph5Std AccKit for 8 proc Lic&1 Yr Subs
   Per 8 Processors with 1 Year Subscription  A1JER4    5809    00D4558

VMware vSphere 5 Ent Acc Kit for 6 proc Lic and 1 Year Subs
```

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        Per 6 Processors with 1 Year Subscription  A1HUR4    5809   00D4560

Upg: VMware vSph5 Ess to vSph5 Ent AccKit for 6 proc Lic & 1 Yr Subs
        Per 6 Processors with 1 Year Subscription  A1H8R4    5809   00D4561

Upg: VMware vSph5EssPlus to vSph5EntAccKit for 6 proc Lic&1 Yr Subs
        Per 6 Processors with 1 Year Subscription  A1H9R4    5809   00D4562

VMware vSph5 EntPlus AccKit for 6 proc Lic and 1 Yr Subs
        Per 6 Processors with 1 Year Subscription  A1HXR4    5809   00D4563

Upg: VMware vSph5Ess to vSph5EntPlus AccKit for 6 proc Lic&1 Yr Subs
        Per 6 Processors with 1 Year Subscription  A1JAR4    5809   00D4564

Upg: VMware vSph5EssPls to vSph5EntPlsAccKit for 6 proc Lic&1 Yr Subs
        Per 6 Processors with 1 Year Subscription  A1JBR4    5809   00D4565

VMware vSph5 Ess Bundle for 3 hosts License and 1 Year Subscription
        Per 3 Hosts with 1 Year Subscription       A1H0R4    5809   00D4566

VMware vSph5 Ess Plus Bundle for 3 hosts Lic and 1 Year Subs
        Per 3 Hosts with 1 Year Subscription       A1HZR4    5809   00D4567

Upg: VMware vSph5 Ess to vSph5 EssPlusKit for 3 hosts Lic&1 Yr Subs
        Per 3 Hosts with 1 Year Subscription       A1JCR4    5809   00D4559

VMware vCenter Server 5 Fnd for vSph5, per Instance Lic&1 Yr Subs
        Per Instance with 1 Year Subscription      A1HPR4    5809   00D4568

VMware vCenter Server 5 Std for vSph5, per Instance Lic&1 Yr Subs
        Per Instance with 1 Year Subscription      A1HRR4    5809   00D4569

Upg: VMware vCntr Server 5 Fnd to vCntr Server 5 Std Lic & 1 Yr Subs
        Per Instance with 1 Year Subscription      A1HSR4    5809   00D4570

VMware vCenter SRM 5 Standard (25 VM Pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1HNR4    5809   00D4571

VMware vCenter SRM5 Enterprise (25 VM Pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1HMR4    5809   00D4572

Upg: VMware vCenter SRM5 Std to Ent (25 VM Pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1HLR4    5809   00D4573

VMware vCenter Chargeback (25 VM Pack) License and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1H3R4    5809   00D4574

VMware vCenter CapacityIQ (25 VM Pack) License and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1H2R4    5809   00D4575

VMware vCloud Director (25 VM Pack) License and 1 Year Subscription
        Per 25 VMs with 1 Year Subscription        A1H4R4    5809   00D4576

VMware vShield Edge 5 (25 VM Pack) License and 1 Year Subscription
        Per 25 VMs with 1 Year Subscription        A1JJR4    5809   00D4577

Upg: VMware vCloud Dir to vShield Edge5 (25 VM Pack) Lic&1 Yr Subs
        Per 25 VMs with 1 Year Subscription        A1JPR4    5809   00D4578

VMware vShield 5 Security Suite (25VM pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1JFR4    5809   00D4579

VMware vShield Endpoint 5 (25 VM Pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1JKR4    5809   00D4580

VMware vShield App 5 (25 VM Pack) License and 1 Year Subscription
        Per 25 VMs with 1 Year Subscription        A1JHR4    5809   00D4581

Upg: VMware vShield Endpt5 to vShield App5 (25 VM Pack) Lic&1 Yr Subs
        Per 25 VMs with 1 Year Subscription        A1JLR4    5809   00D4582

VMware vShield App 5 with Data Sec (25VM pack) Lic and 1 Year Subs
        Per 25 VMs with 1 Year Subscription        A1JGR4    5809   00D4583
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Upg: VMware vShd Endpt5 to vShdApp5w/DataSec (25 VMPk) Lic&1 Yr Subs
   Per 25 VMs with 1 Year Subscription       A1JNR4   5809   00D4584

Upg: VMware vShd App5 to vShd App5 w/DataSec(25 VM Pk) Lic&1 Yr Subs
   Per 25 VMs with 1 Year Subscription       A1JMR4   5809   00D4585


                                            OTC      Supply
Type model number                           feature  feature  SEO
feature description                          number   number   number

5773-VM5   VMware 5 with 3 Year Software Subscription

VMware vSphere 5 Standard for 1 processor Lic and 3 Year Subs
   Per Processor with 3 Year Subscription    A1BZR5   5809   00D4586

VMware vSphere 5 Enterprise for 1 processor Lic and 3 Year Subs
   Per Processor with 3 Year Subscription    A1BYR5   5809   00D4587

Upg: VMware vSph 5 Std to vSph 5 Ent for 1 Proc Lic & 3 Year Subs
   Per Processor with 3 Year Subscription    A1BPR5   5809   00D4588

VMware vSphere 5 Ent Plus for 1 processor Lic and 3 Year Subs
   Per Processor with 3 Year Subscription    A1BXR5   5809   00D4589

Upg: VMware vSph 5 Std to vSph 5 Ent Plus for 1 Proc Lic & 3 Yr Subs
   Per Processor with 3 Year Subscription    A1BMR5   5809   00D4590

Upg: VMware vSph 5 Ent to vSph 5 Ent Plus for 1 Proc Lic & 3 Yr Subs
   Per Processor with 3 Year Subscription    A1BLR5   5809   00D4591

VMware vSphere 5 Std Acc Kit for 8 proc Lic & 3 Year Subs
   Per 8 Processors with 3 Year Subscription  A1BTR5   5809   00D4592

Upg: VMware vSph 5 Ess to vSph 5 Std Acc Kit for 8 proc Lic & 3 Yr Subs
   Per 8 Processors with 3 Year Subscription  A1B5R5   5809   00D4593

Upg: VMware vSph5EssPlus to vSph5Std AccKit for 8 proc Lic&3 Yr Subs
   Per 8 Processors with 3 Year Subscription  A1B6R5   5809   00D4594

VMware vSphere 5 Ent Acc Kit for 6 proc Lic and 3 Year Subs
   Per 6 Processors with 3 Year Subscription  A1BKR5   5809   00D4596

Upg: VMware vSph5 Ess to vSph5 Ent AccKit for 6 proc Lic & 3 Yr Subs
   Per 6 Processors with 3 Year Subscription  A1B0R5   5809   00D4597

Upg: VMware vSph5EssPlus to vSph5EntAccKit for 6 proc Lic&3 Yr Subs
   Per 6 Processors with 3 Year Subscription  A1B1R5   5809   00D4598

VMware vSph5 EntPlus AccKit for 6 proc Lic and 3 Yr Subs
   Per 6 Processors with 3 Year Subscription  A1BNR5   5809   00D4599

Upg: VMware vSph5Ess to vSph5EntPlus AccKit for 6 proc Lic&3 Yr Subs
   Per 6 Processors with 3 Year Subscription  A1B2R5   5809   00D4600

Upg: VMware vSph5EssPls to vSph5EntPlsAccKit for 6 proc Lic&3 Yr Subs
   Per 6 Processors with 3 Year Subscription  A1B3R5   5809   00D4601

VMware vSph5 Ess Bundle for 3 hosts License and 3 Year Subscription
   Per 3 Hosts with 3 Year Subscription      A1BSR5   5809   00D4602

VMware vSph5 Ess Plus Bundle for 3 hosts Lic and 3 Year Subs
   Per 3 Hosts with 3 Year Subscription      A1BRR5   5809   00D4603

Upg: VMware vSph5 Ess to vSph5 EssPlusKit for 3 hosts Lic&3 Yr Subs
   Per 3 Hosts with 3 Year Subscription      A1B4R5   5809   00D4595

VMware vCenter Server 5 Fnd for vSph5, per Instance Lic&3 Yr Subs
   Per Instance with 3 Year Subscription     A1BGR5   5809   00D4604

VMware vCenter Server 5 Std for vSph5, per Instance Lic&3 Yr Subs
   Per Instance with 3 Year Subscription     A1BHR5   5809   00D4605

Upg: VMware vCntr Server 5 Fnd to vCntr Server 5 Std Lic & 3 Yr Subs
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     Per Instance with 3 Year Subscription      A1BJR5   5809   00D4606

VMware vCenter SRM 5 Standard (25 VM Pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1BFR5   5809   00D4607

VMware vCenter SRM5 Enterprise (25 VM Pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1BER5   5809   00D4608

Upg: VMware vCenter SRM5 Std to Ent (25 VM Pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1BDR5   5809   00D4609

VMware vCenter Chargeback (25 VM Pack) License and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1BVR5   5809   00D4610

VMware vCenter CapacityIQ (25 VM Pack) License and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1BUR5   5809   00D4611

VMware vCloud Director (25 VM Pack) License and 3 Year Subscription
     Per 25 VMs with 3 Year Subscription        A1BWR5   5809   00D4612

VMware vShield Edge 5 (25 VM Pack) License and 3 Year Subscription
     Per 25 VMs with 3 Year Subscription        A1CAR5   5809   00D4613

Upg: VMware vCloud Dir to vShield Edge5 (25 VM Pack) Lic&3 Yr Subs
     Per 25 VMs with 3 Year Subscription        A1CFR5   5809   00D4614

VMware vShield 5 Security Suite (25VM pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1B7R5   5809   00D4615

VMware vShield Endpoint 5 (25 VM Pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1CBR5   5809   00D4616

VMware vShield App 5 (25 VM Pack) License and 3 Year Subscription
     Per 25 VMs with 3 Year Subscription        A1B9R5   5809   00D4617

Upg: VMware vShield Endpt5 to vShield App5 (25 VM Pack) Lic&3 Yr Subs
     Per 25 VMs with 3 Year Subscription        A1CCR5   5809   00D4618

VMware vShield App 5 with Data Sec (25VM pack) Lic and 3 Year Subs
     Per 25 VMs with 3 Year Subscription        A1B8R5   5809   00D4619

Upg: VMware vShd Endpt5 to vShdApp5w/DataSec (25 VMPk) Lic&3 Yr Subs
     Per 25 VMs with 3 Year Subscription        A1CER5   5809   00D4620

Upg: VMware vShd App5 to vShd App5 w/DataSec(25 VM Pk) Lic&3 Yr Subs
     Per 25 VMs with 3 Year Subscription        A1CDR5   5809   00D4621


                                              OTC      Supply
Type model number                             feature  feature  SEO
feature description                           number   number   number

5775-VM5  VMware 5 with 5 Year Software Subscription

VMware vSphere 5 Standard for 1 processor Lic and 5 Year Subs
     Per Processor with 5 Year Subscription     B9R0A9   5809   00D4622

VMware vSphere 5 Enterprise for 1 processor Lic and 5 Year Subs
     Per Processor with 5 Year Subscription     B9RZA9   5809   00D4623

Upg: VMware vSph 5 Std to vSph 5 Ent for 1 Proc Lic & 5 Year Subs
     Per Processor with 5 Year Subscription     B9RRA9   5809   00D4624

VMware vSphere 5 Ent Plus for 1 processor Lic and 5 Year Subs
     Per Processor with 5 Year Subscription     B9RYA9   5809   00D4625

Upg: VMware vSph 5 Std to vSph 5 Ent Plus for 1 Proc Lic & 5 Yr Subs
     Per Processor with 5 Year Subscription     B9RNA9   5809   00D4626

Upg: VMware vSph 5 Ent to vSph 5 Ent Plus for 1 Proc Lic & 5 Yr Subs
     Per Processor with 5 Year Subscription     B9RMA9   5809   00D4627

VMware vSphere 5 Std Acc Kit for 8 proc Lic & 5 Year Subs
     Per 8 Processors with 5 Year Subscription B9RUA9   5809   00D4628
```

```
Upg: VMware vSph 5 Ess to vSph 5 Std Acc Kit for 8 proc Lic & 5 Yr Subs
    Per 8 Processors with 5 Year Subscription  B9R6A9    5809    00D4629

Upg: VMware vSph5EssPlus to vSph5Std AccKit for 8 proc Lic&5 Yr Subs
    Per 8 Processors with 5 Year Subscription  B9R7A9    5809    00D4630

VMware vSphere 5 Ent Acc Kit for 6 proc Lic and 5 Year Subs
    Per 6 Processors with 5 Year Subscription  B9RLA9    5809    00D4632

Upg: VMware vSph5 Ess to vSph5 Ent AccKit for 6 proc Lic & 5 Yr Subs
    Per 6 Processors with 5 Year Subscription  B9R1A9    5809    00D4633

Upg: VMware vSph5EssPlus to vSph5EntAccKit for 6 proc Lic&5 Yr Subs
    Per 6 Processors with 5 Year Subscription  B9R2A9    5809    00D4634

VMware vSph5 EntPlus AccKit for 6 proc Lic and 5 Yr Subs
    Per 6 Processors with 5 Year Subscription  B9RPA9    5809    00D4635

Upg: VMware vSph5Ess to vSph5EntPlus AccKit for 6 proc Lic&5 Yr Subs
    Per 6 Processors with 5 Year Subscription  B9R3A9    5809    00D4636

Upg: VMware vSph5EssPls to vSph5EntPlsAccKit for 6 proc Lic&5 Yr Subs
    Per 6 Processors with 5 Year Subscription  B9R4A9    5809    00D4637

VMware vSph5 Ess Bundle for 3 hosts License and 5 Year Subscription
    Per 3 Hosts with 5 Year Subscription       B9RTA9    5809    00D4638

VMware vSph5 Ess Plus Bundle for 3 hosts Lic and 5 Year Subs
    Per 3 Hosts with 5 Year Subscription       B9RSA9    5809    00D4639

Upg: VMware vSph5 Ess to vSph5 EssPlusKit for 3 hosts Lic&5 Yr Subs
    Per 3 Hosts with 5 Year Subscription       B9R5A9    5809    00D4631

VMware vCenter Server 5 Fnd for vSph5, per Instance Lic&5 Yr Subs
    Per Instance with 5 Year Subscription      B9RHA9    5809    00D4640

VMware vCenter Server 5 Std for vSph5, per Instance Lic&5 Yr Subs
    Per Instance with 5 Year Subscription      B9RJA9    5809    00D4641

Upg: VMware vCntr Server 5 Fnd to vCntr Server 5 Std Lic & 5 Yr Subs
    Per Instance with 5 Year Subscription      B9RKA9    5809    00D4642

VMware vCenter SRM 5 Standard (25 VM Pack) Lic and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9RGA9    5809    00D4643

VMware vCenter SRM5 Enterprise (25 VM Pack) Lic and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9RFA9    5809    00D4644

Upg: VMware vCenter SRM5 Std to Ent (25 VM Pack) Lic and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9REA9    5809    00D4645

VMware vCenter Chargeback (25 VM Pack) License and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9RWA9    5809    00D4646

VMware vCenter CapacityIQ (25 VM Pack) License and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9RVA9    5809    00D4647

VMware vCloud Director (25 VM Pack) License and 5 Year Subscription
    Per 25 VMs with 5 Year Subscription        B9RXA9    5809    00D4648

VMware vShield Edge 5 (25 VM Pack) License and 5 Year Subscription
    Per 25 VMs with 5 Year Subscription        B9SBA9    5809    00D4649

Upg: VMware vCloud Dir to vShield Edge5 (25 VM Pack) Lic&5 Yr Subs
    Per 25 VMs with 5 Year Subscription        B9SGA9    5809    00D4650

VMware vShield 5 Security Suite (25VM pack) Lic and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9R8A9    5809    00D4651

VMware vShield Endpoint 5 (25 VM Pack) Lic and 5 Year Subs
    Per 25 VMs with 5 Year Subscription        B9SCA9    5809    00D4652

VMware vShield App 5 (25 VM Pack) License and 5 Year Subscription
```

```
      Per 25 VMs with 5 Year Subscription        B9SAA9    5809   00D4653

Upg: VMware vShield Endpt5 to vShield App5 (25 VM Pack) Lic&5 Yr Subs
      Per 25 VMs with 5 Year Subscription        B9SDA9    5809   00D4654

VMware vShield App 5 with Data Sec (25VM pack) Lic and 5 Year Subs
      Per 25 VMs with 5 Year Subscription        B9R9A9    5809   00D4655

Upg: VMware vShd Endpt5 to vShdApp5w/DataSec (25 VMPk) Lic&5 Yr Subs
      Per 25 VMs with 5 Year Subscription        B9SFA9    5809   00D4656

Upg: VMware vShd App5 to vShd App5 w/DataSec(25 VM Pk) Lic&5 Yr Subs
      Per 25 VMs with 5 Year Subscription        B9SEA9    5809   00D4657
```

### Customization options

Select the appropriate feature numbers to customize your order with delivery options desired. These features can be specified on the initial or MES orders.

```
Expedite shipments

Feature       Description

 3445         Expedite
```

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order.

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## Prices

For all local charges, contact your IBM representative.

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